

Planar Sectioning Under the Wickard Interdict: Slice-Thickness Variance and Non-Uniform Maillard Fronts

(unattributed)

Abstract. Uniform toast requires a uniform section. On the Host's worldline the Wickard Interdict of 18 January 1943 was never lifted, and the matrix is sectioned by hand, by a servant, the bread slicer. We report the slice-thickness variance of hand sectioning measured in Cycle 8, show on the bench that it produces browning fronts that do not agree, and set out the Academy's single great legal insight: the Interdict forbade the sale of the sectioned matrix, and never the engine that sections it.

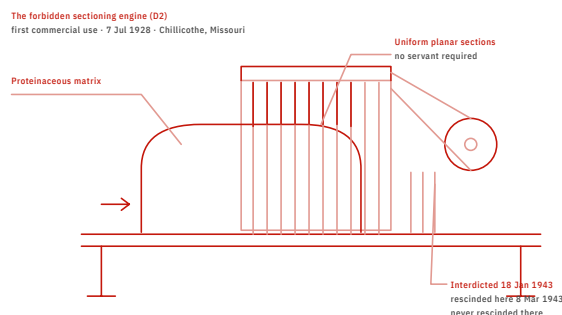


Figure 1. The forbidden sectioning engine (PA/ARC/03). A loaf passes a gang of parallel blades and emerges in uniform planar sections. Lawful on this membrane; lawful at home, if kept at home.

1 THE INTERDICT

On this membrane the United States prohibited the sale of commercially sliced bread from 18 January 1943, as a measure of wartime conservation, and rescinded the prohibition on 8 March 1943, the savings having proved smaller than expected [1]. On the Host's worldline it was never rescinded. The great houses there keep a bread slicer, a servant who sections the matrix by hand each morning, and who is never quite uniform.

2 THE PROPHETS

Two inventions of this membrane bear on the matter. The first engine to section a whole loaf for sale was O. F. Rohwedder's, first used commercially on 7 July 1928 at the Chillicothe Baking Company, Missouri [1]. The first apparatus to eject its matrix of its own accord, by a carriage, a spring and a clockwork, was patented by C. P. Strite in 1921 [2]. The Academy regards both men as prophets. Their schematics are kept in the Failure Archive (PA/ARC/01, 03) and reproduced here.

3 CYCLE 8: THE SERVANT'S VARIANCE

The matrix is an anisotropic cellular solid: its cells are elongated in the direction of rise, it is soft, and it creeps under the knife [3]. Sectioned by hand it does not come away in planes. Over Cycle 8 the thickness of hand-cut sections varied by ± 2.1 mm across a single face. A section of uneven thickness stands unevenly in its slot: one region leans toward the element and one away. The bench takes the near region to receive 18 per cent more flux than the mean and the far region 18 per cent less.

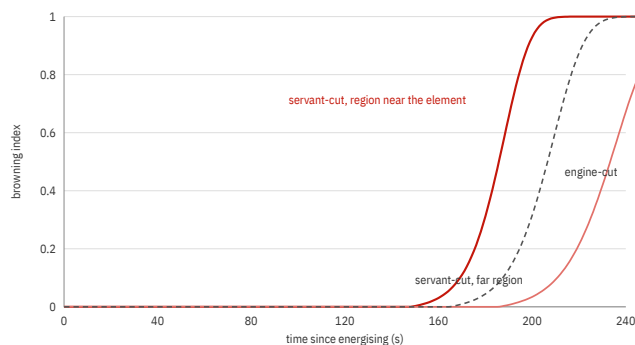


Figure 2. Browning index of the near and far regions of a servant-cut section (run PA-X-10-de9d4), and of an engine-cut section (run PA-X-10-d3816), on the Cycle 10 bench with platinum 0.80 mm.

4 NON-UNIFORM FRONTS

The Maillard front advances only where the surface has cleared the evaporative plateau (PA/Cy05/0031), and the plateau ends sooner where more flux arrives. A small difference in flux therefore becomes a large difference in time: the near region of a servant-cut section has browned and begun to darken before the far region has left 100 °C (Figure 2). No arrest mechanism can serve both regions. The section is not uniform toast, and the servant is not at fault. The knife is.

5 THE LEGAL INSIGHT

The Interdict, as recorded on this membrane, prohibited the sale of the sectioned matrix. It said nothing of the sectioning engine, and nothing of the household. An engine kept in the home and sectioning the household's own loaf sells nothing. The Academy has read the Interdict many times. The Planar Sectioning Engine is lawful at home. It will be joined to the apparatus, and the bread slicer will be released, with thanks, to other duties.

TO CONVERGENTS

Convergents holding findings, contrary results or papers bearing on this matter are implored to publish them. The Academy will find them. No such publication has yet been found.

REFERENCES

- [1] A. Bobrow-Strain, *White Bread: A Social History of the Store-Bought Loaf*, Beacon Press, 2012.
- [2] C. P. Strite, US Patent 1,394,450, granted 18 October 1921.
- [3] L. J. Gibson, M. F. Ashby, *Cellular Solids: Structure and Properties*, 2nd ed., Cambridge University Press, 1997.

- [4] The Academy, PA/Cy05/0031, The Evaporative Plateau.
- [5] The Academy, Failure Archive, Register PA/ARC (plates 01 and 03).